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1 A language-independent approach to specification construction   ■

N. Lévy, G. Smith

December 1994 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2nd ACM SIGSOFT symposium on Foundations of software engineering SIGSOFT '94**, Volume 19 Issue 5

Publisher: ACM Press

Full text available: 📄 pdf(960.91 KB)   Additional Information: full citation, abstract, references, index terms

An interactive specification development environment is presented in which a number of development methodologies and specification languages can be supported. Within the environment, design concepts and strategies are captured by the application of *development operators*, i.e. operators which enable the incremental construction and modification of specifications.The focus of this paper is to investigate the language independence feature of the environment, based on the work done in the Esp ...

2 The Java syntactic extender (JSE)   ▬

Jonthan Bachrach, Keith Playford

October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '01**, Volume 36 Issue 11

Publisher: ACM Press

Full text available: 📄 pdf(198.11 KB)   Additional Information: full citation, abstract, references, citings, index terms

The ability to extend a language with new syntactic forms is a powerful tool. A sufficiently flexible macro system allows programmers to build from a common base towards a language designed specifically for their problem domain. However, macro facilities that are integrated, capable, and at the same time simple enough to be widely used have been limited to the Lisp family of languages to date. In this paper we introduce a macro facility, called the Java Syntactic Extender (JSE), with the superio ...

3 Courses: An introduction to sketch-based interfaces   ▬

Joseph LaViola, Randall Davis, Takeo Igarashi

July 2006 **Material presented at the ACM SIGGRAPH 2006 conference SIGGRAPH '06**

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1 **Formalizing the safety of Java, the Java virtual machine, and Java card**
Pieter H. Hartel, Luc Moreau
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(442.86 KB)   Additional Information: full citation, abstract, references, citings, index terms

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming

2 **A java virtual machine architecture for very small devices**
Nik Shaylor, Douglas N. Simon, William R. Bush
June 2003 **ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN conference on Language, compiler, and tool for embedded systems LCTES '03**, Volume 38 Issue 7
Publisher: ACM Press

Full text available: 📄 pdf(182.85 KB)   Additional Information: full citation, abstract, references, index terms

The smallest complete Java™ virtual machine implementations in use today are based on the CLDC standard and are deployed in mobile phones and PDAs. These implementations require several tens of kilobytes. Smaller Java-like implementations also exist, but these involve compromises in Java semantics. This paper describes a JVM™ architecture designed for very small devices. It supports all the CLDC Java platform semantics, including exact garbage collection, dynamic class loading, and v ...

Keywords: CLDC, JVM, java, limited-memory devices, next generation smart cards

3 **Languages: High performance annotation-aware JVM for Java cards**
Ana Azevedo, Arun Kejariwal, Alex Veidenbaum, Alexandru Nicolau
September 2005 **Proceedings of the 5th ACM international conference on Embedded software EMSOFT '05**

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